

# ART SEARCH RECORD

Patent Examiner Francis Moonan

US Patent Application: 09/869,002

Inventor: Barham, Robert; Joynt, David

## I. EAST Search.

Databases=USPAT; US-PGPUB; EPO; JPO; DERW

Date= 23 May 2002

Author Query=broccoli and (barham.IN. or joynt.IN.)

Results= 3

Art Considered= 3

US Patent No. 6,294,715 B1

WO 0038500

WO 99US31230

Text Query=

Results=

Art Considered=

US Patent No. 6,274,793 B1

US Patent No. 6,118,046 A

WO 2000US19832 Tuzan S; Abdullah M; Singh N P

WO 20010760

## II. DIALOG Search.

Databases= Dialindex:AGRI,BIOTECH

Date= 23 May 2002

Author Query= AU=(BARHAM R) OR AU=(BARHAM, R) OR  
AU=(JOYNT D) OR AU=(JOYNT, D)

Results= 9

Art Considered= 1

2/3/7 (Item 1 from file: 357)

DIALOG(R)File 357:Derwent Biotech Res.

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0257865 DBA Accession No.: 2000-12355 PATENT

Novel heat tolerant broccoli, produced by selective crossing, useful for  
growing broccoli in warm areas - tissue culture, propagation, plant  
breeding and herbicide and pesticide tolerant transgenic plant  
construction

AUTHOR: Barham R ; Joynt D

CORPORATE SOURCE: Gilroy, CA, USA.  
PATENT ASSIGNEE: R&D 2000  
PATENT NUMBER: WO 200038500 PATENT DATE: 20000706 WPI ACCESSION  
NO.:  
2000-452275 (2039)  
PRIORITY APPLIC. NO.: US 328121 APPLIC. DATE: 19990608  
NATIONAL APPLIC. NO.: WO 99US31230 APPLIC. DATE: 19991229  
LANGUAGE: English

Text Query= s (IM(1W)foods and 608 and broccoli) or (marathon and  
broccoli) or (cruiser and broccoli) and (heat or temperatur?)

Results= 129

Art Considered=13

7/3/2 (Item 2 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2002 CAB International. All rts. reserv.

04128640 CAB Accession Number: 20013152229

Influence of temperature and irradiation on glucosinolates in  
broccoli heads.

Krumbein, A.; Schonhof, I.

Institute of Vegetable and Ornamental Crops, Theodor-Echtermeyer-Weg 1,  
D-14979 Grossbeeren, Germany.

Book Title: Biologically-active phytochemicals in food: analysis,  
metabolism, bioavailability and function. Proceedings of the EUROFOODCHEM  
XI Meeting, Norwich, UK, 26-28 September 2001

Conference Title: Biologically-active phytochemicals in food: analysis,  
metabolism, bioavailability and function. Proceedings of the EUROFOODCHEM  
XI Meeting, Norwich, UK, 26-28 September 2001.

p.477-479

Publication Year: 2001

Editors: Pfannhauser, W.; Fenwick, G. R.; Khokhar, S.

Publisher: Royal Society of Chemistry -- Cambridge, UK

ISBN: 0-85404-806-5

Language: English

Document Type: Book chapter; Conference paper

7/3/3 (Item 3 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2002 CAB International. All rts. reserv.

04075626 CAB Accession Number: 20013099460

Effect of incubation temperature regimes and culture medium on  
broccoli microspore culture embryogenesis.

Dias, J. C. da S.

Instituto Superior de Agronomia, Technical University of Lisbon, Tapada  
da Ajuda, 1349-017 Lisboa, Portugal.

Euphytica vol. 119 (3): p.389-394

Publication Year: 2001

ISSN: 0014-2336 --

Language: English

Document Type: Journal article

7/3/6 (Item 6 from file: 50)  
DIALOG(R)File 50:CAB Abstracts  
(c) 2002 CAB International. All rts. reserv.  
03879913 CAB Accession Number: 20000309020  
Predicting broccoli development. I. Development is predominantly determined by temperature rather than photoperiod.  
Tan, D. K. Y.; Birch, C. J.; Wearing, A. H.; Rickert, K. G.  
School of Land and Food, University of Queensland, Gatton College, Gatton, Qld 4345, Australia.  
Scientia Horticulturae vol. 84 (3/4): p.227-243  
Publication Year: 2000  
ISSN: 0304-4238 --  
Language: English  
Document Type: Journal article

7/3/7 (Item 7 from file: 50)  
DIALOG(R)File 50:CAB Abstracts  
(c) 2002 CAB International. All rts. reserv.  
03852309 CAB Accession Number: 20000307458  
Broccoli yield and quality can be determined by cultivar and temperature but not photoperiod in south-east Queensland.  
Tan, D. K. Y.; Wearing, A. H.; Rickert, K. G.; Birch, C. J.  
School of Land and Food, The University of Queensland, Gatton College, Qld 4345, Australia.  
Australian Journal of Experimental Agriculture vol. 39 (7): p.901-909  
Publication Year: 1999  
ISSN: 0816-1089 --  
Language: English  
Document Type: Journal article

7/3/8 (Item 8 from file: 50)  
DIALOG(R)File 50:CAB Abstracts  
(c) 2002 CAB International. All rts. reserv.  
03704490 CAB Accession Number: 990304396  
Broccoli . Marathon and Lord are less resistant to heat .  
Original Title: Broccoli . Marathon en Lord verdragen hitte minder goed.  
Rooster, L. de; Callens, D.  
Proefstation voor de Groenteteelt, Sint-Katelijne-Waver, Belgium.  
Proeftuinnieuws vol. 9 (5): p.23-24  
Publication Year: 1999 --  
Language: Dutch  
Document Type: Journal article

12/3/1 (Item 1 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2002 CAB International. All rts. reserv.

04007259 CAB Accession Number: 20003024511

The influence of transplant age and method of plant raising on yield and harvest time of autumn broccoli (*Brassica oleracea* L. var. *italica* Plenck).

Babik, I.

Research Institute of Vegetable Crops, Konstytucji 3 Maja 1/3, 96-100 Skierniewice, Poland.

Conference Title: 8th International Symposium on Timing of Field Production in Vegetable Crops, Bari, Italy, 15-18 October, 1997.

Acta Horticulturae (No. 533): p.145-151

Publication Year: 2000

ISSN: 0567-7572

Editors: Stoffella, P. J.; Cantliffe, D. J.; Damato, G. --

ISBN: 90-6605-942-7

Language: English

Document Type: Journal article; Conference paper

12/3/2 (Item 2 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2002 CAB International. All rts. reserv.

03985217 CAB Accession Number: 20003003683

Field evaluation of herbicide-resistant transgenic broccoli.

Waterer, D.; Lee, S.; Scoles, G.; Keller, W.

Department of Plant Sciences, 51 Campus Drive, University of Saskatchewan, Saskatoon, SK, S7N 5A8, Canada.

HortScience vol. 35 (5): p.930-932

Publication Year: 2000

ISSN: 0018-5345 --

Language: English

Document Type: Journal article

12/3/3 (Item 3 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2002 CAB International. All rts. reserv.

03918338 CAB Accession Number: 20000312545

Assessment of broccoli (*Brassica oleracea* var. *italica* Pl.) hybrids for late field production.

Mihov, K.; Antonova, G.

Agricultural University of Plovdiv, Bulgaria.

Cruciferae Newsletter (No. 22): p.85-86

Publication Year: 2000

ISSN: 0263-9459 --

Language: English

Document Type: Journal article

12/3/4 (Item 4 from file: 50)  
DIALOG(R)File 50:CAB Abstracts  
(c) 2002 CAB International. All rts. reserv.  
03745350 CAB Accession Number: 991606746  
Yield and quality components of broccoli cultivars (*Brassica oleracea*  
*L. convar. botrytis* (L.) Alef. var. *italica* Plenck).  
Original Title: Komponente prinosa i kvalitete kultivara brokule  
(*Brassica oleracea* L. convar. *botrytis* (L.) Alef. var. *italica* Plenck).  
Toth, N.; Zutic, I.; Novak, B.  
Vegetable Crops Department, Faculty of Agriculture, University of  
Zagreb, Svetosimunska cesta 25, 10000 Zagreb, Croatia.  
Poljoprivredna Znanstvena Smotra vol. 63 (Supplement 4): p.339-345  
Publication Year: 1998  
ISSN: 0370-0291 --  
Language: Hr Summary Language: english  
Document Type: Journal article

14/3/3 (Item 1 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.  
13368159 BIOSIS NO.: 200100575308  
Inheritance of true leaf stage downy mildew resistance in broccoli .  
AUTHOR: Wang Min; Farnham Mark W(a); Thomas Claude E  
AUTHOR ADDRESS: (a)Agricultural Research Service, U.S. Vegetable  
Laboratory, U.S. Department of Agriculture, 2875 Savannah Highway,  
Charleston, SC, 29414\*\*USA  
JOURNAL: Journal of the American Society for Horticultural Science 126 (6  
) :p727-729 November, 2001  
MEDIUM: print  
ISSN: 0003-1062  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

Text Query=(brassica(1W)oleracea or broccoli)and (heat or temperature)  
and (tolerant or tolerance) and (breeding or cultivar or variety)

Results= 53

Art Considered=

9/3/3 (Item 3 from file: 50)  
DIALOG(R)File 50:CAB Abstracts  
(c) 2002 CAB International. All rts. reserv.  
03667068 CAB Accession Number: 991600628  
A heat - tolerant broccoli F1 hybrid, 'Ching-Long 45'.  
Yang YauWen; Tsai ChingChang; Wang TsuTsuen  
Institute of Botany, Academia Sinica, Nankang, Taipei, Taiwan 11529,  
China.  
HortScience vol. 33 (6): p.1090-1091  
Publication Year: 1998  
ISSN: 0018-5345 --  
Language: English  
Document Type: Journal article

9/3/7 (Item 7 from file: 50)  
DIALOG(R)File 50:CAB Abstracts  
(c) 2002 CAB International. All rts. reserv.  
00032372 CAB Accession Number: 720300408  
1971 Research progress.  
USA, Washington State University  
Bulletin, Washington Agricultural Experiment Station  
(No. 734): 58pp.  
Publication Year: 1971 --  
Language: English  
Document Type: Annual report

9/3/8 (Item 1 from file: 98)  
DIALOG(R)File 98:General Sci Abs/Full-Text  
(c) 2002 The HW Wilson Co. All rts. reserv.  
03813525 H.W. WILSON RECORD NUMBER: BGS198063525 (USE FORMAT 7 FOR  
FULLTEXT)  
Edibles & ornamentals for 1999.  
Pelczar, Rita  
Horticulture (Horticulture) v. 96 no1 (Jan./Feb. '99) p. 32+  
SPECIAL FEATURES: il ISSN: 0018-5329  
LANGUAGE: English  
COUNTRY OF PUBLICATION: United States  
WORD COUNT: 3896

9/3/9 (Item 2 from file: 98)  
DIALOG(R)File 98:General Sci Abs/Full-Text  
(c) 2002 The HW Wilson Co. All rts. reserv.  
03506153 H.W. WILSON RECORD NUMBER: BGS197006153 (USE FORMAT 7 FOR  
FULLTEXT)  
The edible outlook.  
AUGMENTED TITLE: vegetables, fruits, and herbs for 1997  
Pelczar, Rita  
Horticulture (Horticulture) v. 94 (Jan. '97) p. 36+  
SPECIAL FEATURES: il ISSN: 0018-5329  
LANGUAGE: English  
COUNTRY OF PUBLICATION: United States  
WORD COUNT: 2740

9/3/10 (Item 3 from file: 98)  
DIALOG(R)File 98:General Sci Abs/Full-Text  
(c) 2002 The HW Wilson Co. All rts. reserv.  
03252854 H.W. WILSON RECORD NUMBER: BGS196002854 (USE FORMAT 7 FOR  
FULLTEXT)  
Vegetables for 1996.  
AUGMENTED TITLE: new introductions  
Pelczar, Rita  
Horticulture (Horticulture) v. 74 (Jan. '96) p. 26+  
SPECIAL FEATURES: il ISSN: 0018-5329  
LANGUAGE: English  
COUNTRY OF PUBLICATION: United States  
WORD COUNT: 2940

6/3/11 (Item 1 from file: 50)  
DIALOG(R)File 50:CAB Abstracts  
(c) 2002 CAB International. All rts. reserv.  
04038160 CAB Accession Number: 20013005809  
A new cabbage F1 hybrid - Heifeng.  
Ding WanXia; Huang ZhenYi; Xu HeLin (et al)  
Institute of Vegetable Crops, Jiangsu Academy of Agricultural Sciences,  
Nanjing 210014, China.  
China Vegetables (No. 6): p.27-29  
Publication Year: 2000  
ISSN: 1000-6346 --  
Language: Chinese Summary Language: english  
Document Type: Journal article

6/3/16 (Item 6 from file: 50)  
DIALOG(R)File 50:CAB Abstracts  
(c) 2002 CAB International. All rts. reserv.  
03260181 CAB Accession Number: 960308883  
Dynamic relationships between field temperatures and broccoli head  
quality.  
Dufault, R. J.  
Coastal Research and Education Center, Department of Horticulture,  
Clemson University, 2865 Savannah Highway, Charleston, SC 29414, USA.  
Journal of the American Society for Horticultural Science vol. 121 (4):  
p.705-710  
Publication Year: 1996  
ISSN: 0003-1062 --  
Language: English  
Document Type: Journal article

6/3/19 (Item 9 from file: 50)  
DIALOG(R)File 50:CAB Abstracts  
(c) 2002 CAB International. All rts. reserv.  
03043604 CAB Accession Number: 951607127  
Breeding for heat tolerance in green beans and broccoli.  
Dickson, M. H.  
New York State Agricultural Experiment Station, Cornell University,  
Geneva, NY 14456, USA.  
Adaptation of food crops to temperature and water stress: proceedings  
of an international symposium, Taiwan, 13-18 August 1992.  
Conference Title: Adaptation of food crops to temperature and water  
stress: proceedings of an international symposium, Taiwan, 13-18 August  
1992.  
p.296-302  
Publication Year: 1993  
Editors: Kuo, C. G.  
Publisher: AVRDC -- Taipei, Taiwan  
ISBN: 92-9058-081-X  
Language: English  
Document Type: Conference paper

6/3/23 (Item 13 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2002 CAB International. All rts. reserv.

02224665 CAB Accession Number: 901610214

Genetic variation for combining ability in tropical cauliflower populations.

Maluf, W. R.; Toma-Braghini, M.; Corte, R. D.; Caldas, L. S.; Ikuta, H.  
Bioplanta Tecnologia de Plantas SA, Caixa Postal 1141, 13100 Campinas,  
SP, Brazil.

Revista Brasileira de Genetica vol. 12 (2): p.331-345

Publication Year: 1989 --

Language: English Summary Language: portuguese

Document Type: Journal article

13/3/23 (Item 1 from file: 5)

DIALOG(R)File 5:BIOSIS Previews(R)

(c) 2002 BIOSIS. All rts. reserv.

11644919 BIOSIS NO.: 199800426650

Molecular markers linked to heat tolerance of broccoli.

AUTHOR: Yang Yau-Wen(a)

AUTHOR ADDRESS: (a)Inst. Botany, Academia Sinica, Taipei 11529\*\*Taiwan

JOURNAL: Hortscience 33 (3):p472 June, 1998

CONFERENCE/MEETING: 95th Annual International Conference of the American  
Society for Horticultural Science Charlotte, North Carolina, July 12-15,  
1998

SPONSOR: American Society for Horticultural Science

ISSN: 0018-5345

RECORD TYPE: Citation

LANGUAGE: English

13/3/10 (Item 8 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2002 CAB International. All rts. reserv.

03043604 CAB Accession Number: 951607127

Breeding for heat tolerance in green beans and broccoli.

Dickson, M. H.

New York State Agricultural Experiment Station, Cornell University,  
Geneva, NY 14456, USA.

Adaptation of food crops to temperature and water stress: proceedings  
of an international symposium, Taiwan, 13-18 August 1992.

Conference Title: Adaptation of food crops to temperature and water  
stress: proceedings of an international symposium, Taiwan, 13-18 August  
1992.

p.296-302

Publication Year: 1993

Editors: Kuo, C. G.

Publisher: AVRDC -- Taipei, Taiwan

ISBN: 92-9058-081-X

Language: English

Document Type: Conference paper



13/3/1 (Item 1 from file: 203)

DIALOG(R)File 203:AGRIS

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01981699 AGRIS No: 96-053332

Cold- tolerant Ogura CMS Brassica vegetables for horticultural use

Earle, E.; Stephenson, C.; Walters, T.; Dickson, M. (Plant Breeding

Department, Cornell University, Ithaca, NY 14853 (USA))

Journal: Cruciferae Newsletter, 1994, (no.16) p. 80-81

Language: English

Text Query=broccoli and microspore and breed?

Results= 20

Art Considered= 7

2/3/3 (Item 3 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2002 BIOSIS. All rts. reserv.

12173237 BIOSIS NO.: 199900468086

Ploidy of broccoli regenerated from microspore culture versus anther culture.

AUTHOR: Wang M(a); Farnham M W(a); Nannes J S P(a)

AUTHOR ADDRESS: (a)Agricultural Research Service, US Vegetable Laboratory,  
US Department of Agriculture, 2875 Savannah Highway, Charleston, SC,  
29414-5334\*\*USA

JOURNAL: Plant Breeding 118 (3):p249-252 July, 1999

ISSN: 0179-9541

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

2/3/4 (Item 4 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2002 BIOSIS. All rts. reserv.

11645254 BIOSIS NO.: 199800426985

Ploidy of regenerated broccoli derived from microspore culture versus anther culture.

AUTHOR: Wang Min; Farnham Mark W

AUTHOR ADDRESS: US Vegetable Lab., 2875 Savannah Hwy, Charleston, SC 29407  
\*\*USA

JOURNAL: Hortscience 33 (3):p533 June, 1998

CONFERENCE/MEETING: 95th Annual International Conference of the American  
Society for Horticultural Science Charlotte, North Carolina, July 12-15,  
1998

SPONSOR: American Society for Horticultural Science

ISSN: 0018-5345

RECORD TYPE: Citation

LANGUAGE: English

2/3/5 (Item 5 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.  
11475986 BIOSIS NO.: 199800257318  
Efficient ploidy determination of anther-derived broccoli .  
AUTHOR: Farnham Mark W; Caniglia Ellis J; Thomas Claude E  
AUTHOR ADDRESS: U.S. Dep. Agric., Agric. Res. Serv., U.S. Veg. Lab., 2875  
Savannah Highway, Clemson, SC 29414-5334\*\*USA  
JOURNAL: Hortscience 33 (2):p323-327 April, 1998  
ISSN: 0018-5345  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

2/3/6 (Item 6 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.  
11296498 BIOSIS NO.: 199800077830  
Doubled-haploid broccoli production using anther culture: Effect of  
anther source and seed set characteristics of derived lines.  
AUTHOR: Farnham Mark W(a)  
AUTHOR ADDRESS: (a)U.S. Dep. Agric., Agric. Res. Serv., U. S. Vegetable  
Lab., 2875 Savannah Highway, Charleston, SC\*\*USA  
JOURNAL: Journal of the American Society for Horticultural Science 123 (1  
)p73-77 Jan., 1998  
ISSN: 0003-1062  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

2/3/7 (Item 7 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.  
10841345 BIOSIS NO.: 199799462490  
Mapping of two genes for resistance to clubroot (*Plasmodiophora brassicae*)  
in a population of doubled haploid lines of *Brassica oleracea* by means of  
RFLP and AFLP markers.  
AUTHOR: Voorrips R E(a); Jongerius M C; Kanne H J  
AUTHOR ADDRESS: (a)Dep. Veg. Fruit Crops, DLO-Cent. Plant Breed. Reprod.  
Res., P.O. Box 16, 6700 AA Wageningen\*\*Netherlands  
JOURNAL: Theoretical and Applied Genetics 94 (1):p75-82 1997  
ISSN: 0040-5752  
RECORD TYPE: Abstract  
LANGUAGE: English

2/3/11 (Item 11 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.  
07295573 BIOSIS NO.: 000090075460  
A SURVEY OF THE ANTHR CULTURE RESPONSE OF BRASSICA-OLERACEA  
L. CULTIVARS  
GROWN UNDER FIELD CONDITIONS  
AUTHOR: ARNISON P G; KELLER W A  
AUTHOR ADDRESS: PALADIN HYBRIDS INC., P.O. BOX 219, BRAMPTON,  
ONTARIO L6V  
2L2, CAN.  
JOURNAL: PLANT BREEDING 104 (2). 1990. 125-133. 1990  
FULL JOURNAL NAME: Plant Breeding  
CODEN: PLABE  
RECORD TYPE: Abstract  
LANGUAGE: ENGLISH

2/3/17 (Item 3 from file: 50)  
DIALOG(R)File 50:CAB Abstracts  
(c) 2002 CAB International. All rts. reserv.  
03177171 CAB Accession Number: 961601306  
Application of anther culture and isolated microspore culture to  
vegetable crop improvement.  
Cao, M. Q.; Li, Y.; Liu, F.; Jiang, T.; Liu, G. S.  
Beijing Vegetable Research Centre, P.O. Box 2443, Beijing 100081, China.  
Conference Title: Genetic improvement of horticultural crops by  
biotechnology. XXIVth International Horticultural Congress, 21-27 August  
1994, Kyoto, Japan.  
Acta Horticulturae (No. 392): p.27-38  
Publication Year: 1995  
ISSN: 0567-7572  
Editors: Nishio, T.; Dore, C. --  
ISBN: 90-6605-466-2  
Language: English  
Document Type: Conference paper; Journal article